

Comparisons of Job Characteristics

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	17.1	21.8	>>	Current knowledge level is likely more than sufficient
Design	5.2	13.2	9.2	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	8.1	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	12.2	4.9	<<	Extensive education and/or training may be required
Physics	4.3	10.1	7.2	<<	Extensive education and/or training may be required
Telecommunications	3.9	10.0	4.1	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	9.3	10.8	>	Current knowledge level is likely sufficient
Building and Construction	4.0	8.4	10.3	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Maintenance Workers, Machinery (49-9043)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	11.4	11.9	0	Current skill level may be sufficient
Repairing	3.4	11.1	11.8	0	Current skill level may be sufficient
Troubleshooting	4.5	10.7	11.0	0	Current skill level may be sufficient

Quality Control Analysis	5.9	10.2	10.0	0	Current skill level may be sufficient
Operation Monitoring	6.6	10.0	11.9	>	Skill level is likely sufficient
Equipment Selection	3.3	5.6	8.5	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 86			
Focus Occupation: Maintenance Workers, Machinery (49-9043)					
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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	10.3	10.7	0	Current ability level may be sufficient
Visualization	7.5	10.1	10.0	0	Current ability level may be sufficient
Control Precision	6.6	10.0	9.5	0	Current ability level may be sufficient
Selective Attention	8.7	10.0	9.0	<	Some improvement in abilities may be required
Finger Dexterity	7.6	9.8	9.4	0	Current ability level may be sufficient
Manual Dexterity	6.5	9.4	9.7	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	9.3	6.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 73
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)		
Work Activities	Exclusivity of Activity	
Clean equipment or machinery	20	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Maintain or repair industrial or related equipment/machinery	39	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Test materials or solutions	73	
Understand service or repair manuals	40	
Understand technical operating, service or repair manuals	6	
Use basic carpentry techniques	62	
Use hand or power tools	2	
Use high voltage apparatus	76	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.